

Project Title	Funding	Strategic Plan Objective	Institution
Dysregulation of mTOR signaling in fragile X syndrome	\$467,760	Q2.S.D	Albert Einstein College of Medicine of Yeshiva University
The role of mTOR inhibitors in the treatment of autistic symptoms in symptomatic infantile spasms	\$0	Q2.S.E	Albert Einstein College of Medicine of Yeshiva University
Sensory processing and integration in autism	\$524,517	Q2.Other	Albert Einstein College of Medicine of Yeshiva University
Modeling 5-HT-absorbing neurons in neuropathology of autism	\$200,400	Q2.Other	Albert Einstein College of Medicine of Yeshiva University
Novel regulatory network involving non-coding role of an ASD candidate gene PTEN	\$240,480	Q2.Other	Albert Einstein College of Medicine of Yeshiva University
Monoallelic expression in neurons derived from induced pluripotent stem cells	\$404,100	Q2.Other	Albert Einstein College of Medicine of Yeshiva University
Building awareness of the value of brain tissue donation for autism research	\$360,525	Q2.S.C	Autism Science Foundation
Addressing challenges to post-mortem tissue donation in families affected with autism	\$64,000	Q2.S.C	Autism Science Foundation
TMLHE deficiency and a carnitine hypothesis for autism	\$60,000	Q2.S.D	Baylor College of Medicine
Motor cortex plasticity in MeCP2 duplication syndrome	\$125,000	Q2.S.D	Baylor College of Medicine
Mutations associated with carnitine deficiency: risk factor for regression in ASD	\$78,650	Q2.S.F	Baylor College of Medicine
Simons Variation in Individuals Project (VIP) Site	\$316,306	Q2.S.G	Baylor College of Medicine
High throughput sequencing of autism spectrum disorder (ASD) endophenotypes	\$39,432	Q2.S.G	Baylor College of Medicine
Multisensory processing in autism	\$0	Q2.Other	Baylor College of Medicine
The role of the new mTOR complex, mTORC2, in autism spectrum disorders	\$0	Q2.Other	Baylor College of Medicine
Hippocampal mechanisms of social learning in animal models of autism	\$62,500	Q2.Other	Baylor College of Medicine
Neurobiological mechanism of 15q11-13 duplication autism spectrum disorder	\$367,304	Q2.S.D	Beth Israel Deaconess Medical Center
Neurobiology of aggression co-morbidity in mouse model of idic15 autism	\$261,000	Q2.S.E	Beth Israel Deaconess Medical Center
The effects of disturbed sleep on sleep-dependent memory consolidation and daily function in individuals with ASD	\$0	Q2.S.E	Beth Israel Deaconess Medical Center
Role of microglia and complement at developing synapses in ASD	\$122,500	Q2.S.A	Boston Children's Hospital
Mechanisms Underlying the Cerebellar Contribution to Autism in Mouse Models of Tu	\$190,458	Q2.S.D	Boston Children's Hospital
MRI biomarkers of patients with tuberous sclerosis complex and autism	\$720,276	Q2.S.D	Boston Children's Hospital
A cerebellar mutant for investigating mechanisms of autism in Tuberous Sclerosis	\$149,967	Q2.S.D	Boston Children's Hospital
Probing synaptic receptor composition in mouse models of autism	\$249,995	Q2.S.D	Boston Children's Hospital

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Simons Variation in Individuals Project (VIP) Site	\$624,864	Q2.S.G	Boston Children's Hospital
Characterization of infants and toddlers with the 16p copy-number variation	\$149,372	Q2.S.G	Boston Children's Hospital
Understanding the etiological significance of attentional disengagement in infants at-risk for ASD	\$49,000	Q2.L.A	Boston Children's Hospital
Corticothalamic circuit interactions in autism	\$200,000	Q2.Other	Boston Children's Hospital
Neuropeptide regulation of juvenile social behaviors	\$14,775	Q2.Other	Boston College
The effects of autism on the sign language development of deaf children	\$53,942	Q2.Other	Boston University
Artifacts as windows to other minds: Social reasoning in typical and ASD children	\$49,214	Q2.Other	Boston University
Elucidating the function of class 4 semaphorins in GABAergic synapse formation	\$325,130	Q2.Other	Brandeis University
Semaphorin4D and PlexinB1 mediate GABAergic synapse development in mammalian CNS	\$27,814	Q2.Other	Brandeis University
Role of the 16p11.2 CNV in autism: genetic, cognitive and synaptic/circuit analyses	\$0	Q2.S.G	Broad Institute, Inc.
Linking genetic mosaicism, neural circuit abnormalities and behavior	\$62,500	Q2.S.D	Brown University
Development of vision and attention in typical and ASD individuals	\$305,682	Q2.S.G	Brown University
Role of endosomal NHE6 in brain connectivity and autism	\$62,500	Q2.Other	Brown University
Genetic-imaging study of obsessive compulsive behavior in autism	\$360,826	Q2.Other	Brown University
The mechanism of the maternal infection risk factor for autism	\$150,000	Q2.S.A	California Institute of Technology
Direct recording from autism brains	\$120,148	Q2.S.E	California Institute of Technology
Single-unit recordings in neurosurgical patients with autism	\$56,900	Q2.S.E	California Institute of Technology
CAREER: Dissecting the neural mechanisms for face detection	\$0	Q2.Other	California Institute of Technology
Autism and the insula: Genomic and neural circuits	\$0	Q2.Other	California Institute of Technology
Investigating brain organization and activation in autism at the whole-brain level	\$30,000	Q2.Other	California Institute of Technology
The computational basis of theory of mind in the human brain	\$130,695	Q2.Other	California Institute of Technology
Reliability of Sensory-Evoked Activity in Autism Spectrum Disorders- Project 1	\$0	Q2.L.B	Carnegie Mellon University
CDI-TYPE II: From language to neural representations of meaning	\$0	Q2.Other	Carnegie Mellon University

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Using high definition fiber tracking to define developmental neurobiologic mechanisms & a neural basis for behavioral heterogeneity	\$0	Q2.Other	Carnegie Mellon University
Unreliability of neuronal responses in mouse models of autism	\$62,500	Q2.Other	Carnegie Mellon University
TrkB agonist therapy for sensorimotor dysfunction in Rett syndrome	\$141,976	Q2.S.D	Case Western Reserve University
Identification of genes responsible for a genetic cause of autism	\$125,000	Q2.Other	Case Western Reserve University
ERK signaling in autism associated with copy number variation of 16p11.2	\$0	Q2.Other	Case Western Reserve University
Impact of NR2B mutations on NMDA receptors and synapse formation	\$60,000	Q2.Other	Case Western Reserve University
Phenotypic characterization of MECP2 mice	\$64,742	Q2.S.D	Children's Hospital of Philadelphia
Characterizing 22q11.2 abnormalities	\$62,498	Q2.S.D	Children's Hospital of Philadelphia
Simons Variation in Individuals Project (Simons VIP) Functional Imaging Site and Structural Imaging/Phenotyping Site	\$0	Q2.S.G	Children's Hospital of Philadelphia
Testing the hyperspecificity hypothesis: A neural theory of autism	\$189,836	Q2.Other	Children's Hospital of Philadelphia
Structural and functional neuroimaging of the auditory system in autism	\$157,938	Q2.Other	Children's Hospital of Philadelphia
Functional connectivity in autism spectrum disorders	\$251,250	Q2.Other	Children's Hospital of Philadelphia
AUTISM AND OBESITY: CO-OCCURRING CONDITIONS OR DRUG SIDE EFFECTS?	\$99,820	Q2.S.E	Children's Mercy Hospital
Activity-dependent Mechanisms of Visual Circuit Formation	\$0	Q2.Other	Children's Research Institute (CRI) Children's National Medical Center
Selective disruption of hippocampal dentate granule cells in autism: Impact of PT	\$396,897	Q2.S.E	Cincinnati Children's Hospital Medical Center
The PI3K Catalytic Subunit p110delta as Biomarker and Therapeutic Target in Autism and Schizophrenia	\$0	Q2.Other	Cincinnati Children's Hospital Medical Center University of Cincinnati
Testing the ribosomal protein S6 as treatment target and biomarker in autism spectrum disorders	\$60,000	Q2.S.D	Cincinnati Children's Hospital Medical Center
The neural bases of top-down attentional control in autism spectrum disorders	\$27,578	Q2.Other	City College of New York
Pragmatics and semantics in autism spectrum disorder	\$27,487	Q2.Other	City University of New York Graduate School and University Center
Behavioral and cognitive characteristics of females and males with autism	\$0	Q2.S.B	Cleveland Clinic Foundation
Astrocyte function in genetic mouse models of autism spectrum disorders	\$394,063	Q2.S.D	Cleveland Clinic Lerner College of Medicine, Case Western Reserve University

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Understanding the Genetic Architecture of Rett Syndrome - an Autism Spectrum Disorder	\$0	Q2.S.D	Cold Spring Harbor Laboratory
Auditory cortical plasticity in a mouse model of Rett syndrome	\$43,501	Q2.S.D	Cold Spring Harbor Laboratory
Cell adhesion molecules in autism: A whole-brain study of genetic mouse models	\$448,320	Q2.Other	Cold Spring Harbor Laboratory
Investigation of social brain circuits and fever-evoked response in 16p11.2 mice	\$0	Q2.Other	Cold Spring Harbor Laboratory
Social brain circuits and fever-evoked response in 16p11.2 mice	\$87,500	Q2.Other	Cold Spring Harbor Laboratory
Alterations in brain-wide neuroanatomy in autism mouse models	\$300,000	Q2.Other	Cold Spring Harbor Laboratory
Mitochondrial dysfunction due to aberrant mTOR-regulated mitophagy in autism	\$183,568	Q2.S.A	Columbia University
Phagocytosis is misregulated in a Drosophila model of Fragile X syndrome	\$47,232	Q2.S.D	Columbia University
Aberrant synaptic form and function due to TSC-mTOR-related mutation in autism spectrum disorders	\$150,000	Q2.S.D	Columbia University
Molecular analysis of gene-environment interactions in the intestines of children with autism	\$150,000	Q2.S.E	Columbia University
Simons Variation in Individuals Project (VIP) Principal Investigator	\$123,623	Q2.S.G	Columbia University
Simons Variation in Individuals Project (VIP) Statistical Core Site	\$221,381	Q2.S.G	Columbia University
Neuroprotective effects of oxytocin receptor signaling in the enteric nervous system	\$0	Q2.Other	Columbia University
Role of neurexin in the amygdala and associated fear memory	\$0	Q2.Other	Columbia University
Neurexin-neurexin trans-synaptic interaction in learning and memory	\$100,000	Q2.Other	Columbia University
Investigation of a possible role of the protocadherin gene cluster in autism	\$150,000	Q2.Other	Columbia University
Modeling alteration of RBFOX1 (A2BP1) target network in autism	\$60,000	Q2.Other	Columbia University
CAREER: Integrative behavioural and neurophysiological studies of normal and autistic cognition using video game environments	\$0	Q2.Other	Cornell University
Assessment of glutamate delta-1 receptor in mental disorders	\$218,250	Q2.Other	Creighton University
Preference acquisition in children and adolescents with and without autism spectrum disorder	\$0	Q2.Other	Dalhousie University

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New approaches to local translation: SpaceSTAMP of proteins synthesized in axons	\$401,927	Q2.S.D	Dana-Farber Cancer Institute
Transcriptional control of inhibitory synapse formation	\$353,295	Q2.Other	Dana-Farber Cancer Institute
The impact of Pten signaling on neuronal form and function	\$375,706	Q2.Other	Dartmouth College
Neural underpinning of emotion perception and its disorders	\$15,000	Q2.Other	Dartmouth College
Presynaptic Fragile X Proteins	\$249,000	Q2.S.D	Drexel University
PRECURSORS TO THE DEVELOPMENT OF ANXIETY DISORDERS IN YOUNG CHILDREN WITH AUTISM SPECTRUM DISORDER	\$589,750	Q2.S.E	Duke University
PRECURSORS TO THE DEVELOPMENT OF ANXIETY DISORDERS IN YOUNG CHILDREN WITH AUTISM SPECTRUM DISORDER	\$173,826	Q2.S.E	Duke University
Animal model of genetics and social behavior in autism spectrum disorders	\$658,361	Q2.S.G	Duke University
The Role of Shank3 in Neocortex Versus Striatum and the Pathophysiology of Autism	\$25,000	Q2.S.G	Duke University
Analysis of Shank3 complete and temporal and spatial specific knockout mice	\$408,192	Q2.Other	Duke University
Neuronal basis of vicarious reinforcement dysfunction in autism spectrum disorder	\$297,527	Q2.Other	Duke University
The striatal circuitry underlying autistic-like behaviors	\$31,975	Q2.Other	Duke University
Engagement of Social Cognitive Networks during Game Play in Autism	\$0	Q2.Other	Duke University
Dissecting Reciprocal CNVs Associated With Autism	\$0	Q2.Other	Duke University
Mapping functional neural circuits that mediate social behaviors in autism	\$62,500	Q2.Other	Duke University Medical Center
White matter glial pathology in autism	\$0	Q2.Other	East Tennessee State University
Verbal/non-verbal asynchrony in adolescents with high-functioning autism	\$402,978	Q2.Other	Emerson College
MRI: Acquisition of an Infrared Eye Tracker to Study the Emergence, Use, Loss, and Requisition of Communication Skills	\$41,575	Q2.Other	Emerson College
Modulation of RhoA signaling by the mRNA binding protein hnRNPQ1	\$30,912	Q2.S.D	Emory University
Simons Variation in Individuals Project (Simons VIP)	\$372,288	Q2.S.G	Emory University
Language processing in children with 22q11 deletion syndrome and autism	\$0	Q2.S.G	Emory University
ACE Center: Predicting risk and resilience in ASD through social visual engagement	\$226,068	Q2.L.B	Emory University

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Identification and analysis of ASD patients with PI3K/mTOR signalopathies	\$66,500	Q2.Other	Emory University
Behavioral and neural processing of faces and expressions in nonhuman primates	\$334,541	Q2.Other	Emory University
ACE Center: Ontogeny and neural basis of social visual engagement in monkeys	\$304,370	Q2.Other	Emory University
The role of UBE3A in autism: Is there a critical window for social development?	\$54,450	Q2.S.D	Erasmus University Medical Center
MATERNAL BRAIN-REACTIVE ANTIBODIES AND AUTISM SPECTRUM DISORDER	\$190,577	Q2.S.A	Feinstein Institute for Medical Research
Monolingual and bilingual infants' sensitivity to agreement morphology in Spanish	\$137,605	Q2.Other	Florida International University
Foundation Associates agreement (BrainNet)	\$250,000	Q2.S.C	Foundation Associates, LLC
Molecular mechanisms of electrical synapse formation in vivo	\$90,000	Q2.Other	Fred Hutchinson Cancer Research Center
Identifying the gene in 17q12 responsible for neuropsychiatric phenotypes	\$228,375	Q2.S.G	Geisinger Clinic
Simons Variation in Individuals Project (VIP) Recruitment Core and Phase 2 Coordination Site	\$168,626	Q2.S.G	Geisinger Clinic, Weis Center for Research
Neuroimaging of top-down control and bottom-up processes in childhood ASD	\$371,791	Q2.Other	Georgetown University
Functional Connectivity during Working Memory in Children with ASD: A NIRS Study	\$29,500	Q2.Other	Georgetown University
Exploring metabolic dysfunction in the brains of people with autism	\$0	Q2.S.A	George Washington University
Elucidation and rescue of amygdala abnormalities in the Fmr1 mutant mouse model of fragile X syndrome	\$0	Q2.S.D	George Washington University
Mechanisms of mitochondrial dysfunction in autism	\$0	Q2.S.A	Georgia State University
Gesture as a forerunner of linguistic change- insights from autism	\$385,000	Q2.L.A	Georgia State University
Vasopressin receptor polymorphism and social cognition	\$310,085	Q2.Other	Georgia State University
RI: Small: Addressing visual analogy problems on the raven's intelligence test	\$0	Q2.Other	Georgia Tech Research Corporation
The social brain in schizophrenia and autism spectrum disorders	\$498,431	Q2.Other	Hartford Hospital
To study the relationship between low GAD2 levels and anti-GAD antibodies in autistic children	\$0	Q2.S.A	Hartwick College
To Determine Epidermal growth factor (EGF) and EGF Receptor Plasma Concentration and It's Relationship to Hepatocyte Growth Factor (HGF), GABA Levels and Symptom Severity in Autistic Children	\$4,500	Q2.S.A	Hartwick College

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Urokinase-type plasminogen activator plasma concentration and its relationship to hepatocyte growth factor (HGF) and GABA levels in autistic children	\$0	Q2.Other	Hartwick College
A novel essential gene for human cognitive function	\$47,232	Q2.S.D	Harvard Medical School
Analysis of MEF2 in cortical connectivity and autism-associated behaviors	\$49,214	Q2.S.D	Harvard Medical School
The role of UBE3A in autism	\$250,001	Q2.S.D	Harvard Medical School
Characterizing the genetic systems of autism through multi-disease analysis	\$503,306	Q2.S.G	Harvard Medical School
Protein interaction networks in autism	\$62,500	Q2.Other	Harvard Medical School
Simons Variation in Individuals Project (VIP) Imaging Analysis Site	\$159,805	Q2.S.G	Harvard University
The Brain Genomics Superstruct Project	\$150,000	Q2.L.B	Harvard University
Neural Correlates of Imitation in Children with Autism and their Unaffected Siblings	\$28,600	Q2.L.B	Harvard University
Behavioral and neural responses to emotional faces in individuals with ASD	\$29,871	Q2.Other	Harvard University
A system-level approach for discovery of phenotype specific genetic variation in ASD	\$29,500	Q2.S.G	Hebrew University
Brain-behavior interactions and visuospatial expertise in autism: a window into the neural basis of autistic cognition	\$14,800	Q2.Other	Hospital Riviere-des-Praires, University of Montreal, Canada
Bayesian variable selection in generalized linear models with missing variables	\$229,953	Q2.Other	Hunter College (City University of New York)
Multigenic basis for autism linked to 22q13 chromosomal region	\$250,000	Q2.S.D	Hunter College of the City University of New York (CUNY) jointly with Research Foundation of CUNY
Investigating brain connectivity in autism at the whole-brain level	\$232,307	Q2.Other	Indiana University
Identification and Functional Analysis of Risk Genes for Autistic Macrocephaly	\$0	Q2.S.G	Institute of Psychiatry/King's College London
Why are autistic females rare and severe? An approach to autism gene identification.	\$28,600	Q2.S.B	Johns Hopkins University
Olfactory abnormalities in the modeling of Rett syndrome	\$339,270	Q2.S.D	Johns Hopkins University
Dynamic regulation of Shank3 and ASD	\$604,587	Q2.Other	Johns Hopkins University
The role of the GRIP protein complex in AMPA receptor trafficking and autism spectrum disorders	\$15,000	Q2.Other	Johns Hopkins University
GABAergic dysfunction in autism	\$50,000	Q2.Other	Johns Hopkins University
High throughput screen for small molecule probes for neural network development	\$388,800	Q2.Other	Johns Hopkins University
Dysfunction of sensory inhibition in autism	\$258,134	Q2.Other	Johns Hopkins University

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Role of LIN28/let-7 axis in autism	\$62,500	Q2.Other	Johns Hopkins University School of Medicine
Understanding the brain basis of impaired imitation learning in autism	\$56,900	Q2.Other	Kennedy Krieger Institute
A preliminary investigation of the neurobehavioral basis of sensory behavior in autism	\$20,000	Q2.Other	Kennedy Krieger Institute
EEG-based assessment of functional connectivity in autism	\$175,176	Q2.Other	Kennedy Krieger Institute
Autism phenotypes in Tuberous Sclerosis: Risk factors, features & architecture	\$149,999	Q2.S.D	King's College London
In-vivo MRS assay of brain glutamate-GABA balance and drug response in autism	\$58,561	Q2.L.B	King's College London
Study of health outcomes in children with autism and their families	\$496,440	Q2.Other	Lewin Group, Inc.
Roles of miRNAs in regulation of Foxp2 and in autism	\$15,000	Q2.Other	Louisiana State University
Altered sensorimotor processing in a mouse model of autism	\$60,000	Q2.Other	Louisiana State University School of Veterinary Medicine
Translational dysregulation in autism pathogenesis and therapy	\$125,000	Q2.S.D	Massachusetts General Hospital
MicroRNAs in synaptic plasticity and behaviors relevant to autism	\$131,220	Q2.S.D	Massachusetts General Hospital
The genomic bridge project (GBP)	\$158,206	Q2.S.G	Massachusetts General Hospital
Local functional connectivity in the brains of people with autism	\$108,297	Q2.L.B	Massachusetts General Hospital
Analysis of autism linked genes in C. elegans	\$62,500	Q2.Other	Massachusetts General Hospital
Retrograde synaptic signaling by Neurexin and Neuroligin in C. elegans	\$125,000	Q2.Other	Massachusetts General Hospital
Molecular signatures of autism genes and the 16p11.2 deletion	\$62,500	Q2.Other	Massachusetts General Hospital
Classifying autism etiology by expression networks in neural progenitors and differentiating neurons	\$149,999	Q2.Other	Massachusetts General Hospital
3 Tesla 31Phosphorus magnetic resonance spectroscopy in disorder with abnormal bioenergetics	\$0	Q2.Other	Massachusetts General Hospital
Functional connectivity substrates of social and non-social deficits in ASD	\$719,629	Q2.Other	Massachusetts General Hospital
Role of Serotonin Signaling during Neural Circuitry Formation in Autism Spectrum Disorders	\$0	Q2.S.D	Massachusetts Institute of Technology
Probing the neural basis of social behavior in mice	\$125,000	Q2.S.D	Massachusetts Institute of Technology
Impairments of theory of mind disrupt patterns of brain activity	\$308,160	Q2.Other	Massachusetts Institute of Technology
CAREER: Typical and atypical development of brain regions for theory of mind	\$148,521	Q2.Other	Massachusetts Institute of Technology

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Behavioral, fMRI, and anatomical MRI investigations of attention in autism	\$49,214	Q2.Other	Massachusetts Institute of Technology
Shank3 in synaptic function and autism	\$385,200	Q2.Other	Massachusetts Institute of Technology
Brain bases of language deficits in SLI and ASD	\$583,471	Q2.Other	Massachusetts Institute of Technology
Using Drosophila to characterize the molecular pathogenesis of autism	\$234,000	Q2.Other	Massachusetts Institute of Technology
Imaging signal transduction in single dendritic spines	\$449,208	Q2.Other	Max Planck Florida Corporation
Perturbation of Excitatory Synapse Formation in Autism Spectrum Disorders	\$0	Q2.Other	Max Planck Florida Institute for Neuroscience
Functional analysis of EPHB2 mutations in autism	\$124,950	Q2.Other	McLean Hospital
Connections between autism, serotonin and hedgehog signaling	\$124,401	Q2.S.D	Medical Research Council-National Institute for Medical Research
CNTNAP2 regulates production, migration and organization of cortical neurons	\$62,496	Q2.Other	Memorial Sloan-Kettering Cancer Center
Time Perception and Timed Performance in Autism	\$248,938	Q2.Other	Michigan State University
CAREER: The role of prosody in word segmentation and lexical access	\$0	Q2.Other	Michigan State University
Denritic Cell Function in Autism	\$26,920	Q2.S.A	MIND Institute
Enhancing neurobehavioural and clinical definitions in autism spectrum disorders	\$14,000	Q2.Other	Monash University
Hyperthermia and the amelioration of autism symptoms	\$66,153	Q2.S.A	Montefiore Medical Center
Role of Sema7A in functional organization of neocortex	\$366,120	Q2.S.D	Mount Sinai School of Medicine
Neural basis of behavioral flexibility	\$347,607	Q2.Other	Mount Sinai School of Medicine
Probing the Molecular Mechanisms Underlying Autism: Examination of Dysregulated Protein Synthesis	\$49,300	Q2.S.D	National Institute of Mental Health (NIH)
Dysregulation of protein synthesis in fragile X syndrome	\$1,089,880	Q2.S.D	National Institutes of Health
Treatment of medical conditions among individuals with autism spectrum disorders	\$488,568	Q2.S.E	National Institutes of Health
Neuroendocrine regulation of metabolism and neurocognition	\$355,088	Q2.S.E	National Institutes of Health
Neuroimmunologic investigations of autism spectrum disorders (ASD)	\$162,856	Q2.S.F	National Institutes of Health
Pediatric brain imaging	\$2,140,977	Q2.L.A	National Institutes of Health
Functional anatomy of face processing in the primate brain	\$1,555,641	Q2.Other	National Institutes of Health
The cognitive neuroscience of autism spectrum disorders	\$997,922	Q2.Other	National Institutes of Health
Learning and plasticity in the human brain	\$392,666	Q2.Other	National Institutes of Health

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A collaborative translational autism research program for the military.	\$966,000	Q2.S.G	Nationwide Children's Hospital
CIRCADIAN RHYTHMS IN CHILDREN WITH ASD AND THEIR INFANT SIBLINGS	\$99,000	Q2.S.E	Naval Medical Research Center
Determining the role of GABA in four animal models of autism	\$166,895	Q2.Other	Neurochlore
Brain mitochondrial abnormalities in autism	\$0	Q2.S.A	New York State Institute for Basic Research in Developmental Disabilities
Roles of pro-inflammatory Th17 cells in autism	\$124,989	Q2.S.A	New York University
Translation, synchrony, and cognition	\$375,588	Q2.S.D	New York University
Cortico-striatal dysfunction in the eIF4E transgenic mouse model of autism	\$61,999	Q2.S.D	New York University
Canonical neural computation in autism	\$321,362	Q2.Other	New York University
Spatial attention in autism spectrum disorders	\$0	Q2.Other	New York University
Dysregulated Translation and Synaptic Dysfunction in Medium Spiny Neurons of Autism Model Mice	\$0	Q2.Other	New York University
Interneuron subtype-specific malfunction in autism spectrum disorders	\$120,000	Q2.Other	New York University School of Medicine
Pragmatic language and social-emotional processing in autism, fragile X, and the FMR1 premutation	\$29,474	Q2.S.D	Northwestern University
Regulation of cortical critical periods in a mouse model of autism	\$0	Q2.S.D	Northwestern University
A family-genetic study of autism and fragile X syndrome	\$593,966	Q2.S.D	Northwestern University
A family-genetic study of language in autism	\$308,419	Q2.S.G	Northwestern University
The flexibility of individuation and ensemble representation	\$47,114	Q2.Other	Northwestern University
DISRUPTION OF TROPHIC INHIBITORY SIGNALING IN AUTISM SPECTRUM DISORDERS	\$180,832	Q2.Other	Northwestern University
Neurologin, oxidative stress and autism	\$150,000	Q2.Other	Oklahoma Medical Research Foundation
Characterizing mechanistic heterogeneity across ADHD and autism	\$556,250	Q2.Other	Oregon Health & Science University
Computational characterization of language use in autism spectrum disorder	\$692,911	Q2.Other	Oregon Health & Science University
Assessing the Cognitive Deficits Associated with 16p11.2 Deletion Syndrome	\$59,734	Q2.S.G	Posit Science Corporation
Controlling Interareal Gamma Coherence by Optogenetics, Pharmacology and Behavior	\$248,999	Q2.Other	Princeton University
Self-Regulation and Sleep in Children At Risk for Autism Spectrum Disorders	\$249,000	Q2.S.E	Purdue University

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Sex-Specific Gene-Environment Interactions Underlying ASD	\$35,000	Q2.S.B	Rockefeller University
Platform for autism treatments from exome analysis	\$100,000	Q2.S.E	Rockefeller University
Amygdala circuitry of impaired social-emotional behavior in autism	\$58,488	Q2.Other	Rosalind Franklin University of Medicine and Science
Multiple systems in theory of mind development	\$0	Q2.Other	Rutgers, The State University of New Jersey - New Brunswick
ASD - Inflammatory Subtype: Molecular Mechanisms	\$20,148	Q2.S.A	Rutgers University
Dissecting neural mechanisms integrating multiple inputs in <i>C. elegans</i>	\$477,449	Q2.Other	Salk Institute for Biological Studies
Examining connectivity patterns of brain networks participating in social cognition in ASD	\$0	Q2.Other	San Diego State University
Multimodal imaging of social brain networks in ASD	\$148,945	Q2.Other	San Diego State University
Linking local activity and functional connectivity in autism	\$360,142	Q2.Other	San Diego State University
Thalamocortical connectivity in children and adolescents with ASD-A combined fMRI and DTI approach	\$28,600	Q2.Other	San Diego State University
Autism Biomarker Discovery Program	\$1,999,984	Q2.L.B	Seaside Therapeutics
Physiology of attention and regulation in children with ASD and LD	\$327,380	Q2.Other	Seattle Children's Hospital
Social reward in autism: Electrophysiological, behavioral, and clinical correlates	\$51,400	Q2.Other	Seattle Childrens Hospital
Engrailed genes and cerebellum morphology, spatial gene expression and circuitry	\$451,202	Q2.Other	Sloan-Kettering Institute for Cancer Research
GABRB3 and prenatal immune events leading to autism	\$62,500	Q2.S.A	Stanford University
GABRB3 and placental vulnerability in ASD	\$523,820	Q2.S.A	Stanford University
Restoring cortical plasticity in a Rett mouse model	\$60,000	Q2.S.D	Stanford University
Revealing protein synthesis defects in fragile X syndrome with new chemical tools	\$337,091	Q2.S.D	Stanford University
Longitudinal MRI study of brain development in fragile X	\$748,506	Q2.S.D	Stanford University
Neurobiology of RAI1, the causal gene for Smith-Magenis syndrome	\$62,314	Q2.S.D	Stanford University
Mesocorticolimbic dopamine circuitry in mouse models of autism	\$349,295	Q2.S.D	Stanford University
Characterizing sleep disorders in autism spectrum disorder	\$75,107	Q2.S.E	Stanford University
A neuroimaging study of twin pairs with autism	\$599,326	Q2.S.G	Stanford University
Imaging-based real-time feedback to enhance therapeutic intervention in ASD	\$59,825	Q2.L.B	Stanford University

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Structural and functional connectivity of large-scale brain networks in autism	\$168,978	Q2.Other	Stanford University
Function of neuroligins	\$461,977	Q2.Other	Stanford University
Function and dysfunction of neuroligins in synaptic circuits	\$450,000	Q2.Other	Stanford University
Role of CNTNAP2 in neuronal structural development and synaptic transmission	\$55,200	Q2.Other	Stanford University
CLARITY: circuit-dynamics and connectivity of autism-related behavior	\$248,468	Q2.Other	Stanford University
Face perception: Mapping psychological spaces to neural responses	\$0	Q2.Other	Stanford University
Mathematical cognition in autism: A cognitive and systems neuroscience approach	\$610,784	Q2.Other	Stanford University
Frontostriatal synaptic dysfunction in a model of autism	\$52,190	Q2.Other	Stanford University
Role of neuroligin in synapse formation and maintenance	\$53,942	Q2.Other	Stanford University
Investigating the role of neuroligin-1 mutation in autism using human induced neuro	\$49,214	Q2.Other	Stanford University
Brain Systems Supporting Learning and Memory in Children with Autism	\$173,607	Q2.Other	Stanford University
IMAGING DEPRESSION IN ADULTS WITH ASD	\$192,601	Q2.S.E	State University New York Stony Brook
Folate receptor autoimmunity in Autism Spectrum Disorders	\$149,755	Q2.S.A	State University of New York, Downstate Medical Center
NINDS comment: Disruption of Reelin biosynthesis by de novo missense mutations found in aut	\$32,615	Q2.Other	State University of New York Upstate Medical Center
The neurophysiology of sensory processing and multisensory integration in ASD	\$437,684	Q2.Other	Syracuse University
Mouse Model of Dup15q Syndrome	\$84,253	Q2.S.D	Texas AgriLife Research
Simons Variation in Individuals Project (VIP) Structural Imaging and Phenotyping Site - SCAP-local	\$260,788	Q2.S.G	The Children's Hospital of Philadelphia
Simons Variation in Individuals Project (VIP) Functional Imaging Site	\$419,819	Q2.S.G	The Children's Hospital of Philadelphia
RNA dysregulation in autism	\$250,000	Q2.Other	The Rockefeller University
A stem cell based platform for identification of common defects in autism spectrum disorders	\$0	Q2.S.D	The Scripps Research Institute - California
Cell adhesion molecules in CNS development	\$515,850	Q2.Other	The Scripps Research Institute - California
Impact of SynGAP1 mutations on synapse maturation and cognitive development	\$661,570	Q2.Other	The Scripps Research Institute - Florida
Understanding the basic neurobiology of Pitt-Hopkins syndrome	\$0	Q2.S.D	The University of Alabama at Birmingham

Project Title	Funding	Strategic Plan Objective	Institution
Cerebellar plasticity and learning in a mouse model of autism	\$0	Q2.S.D	The University of Chicago
Role of astrocytic glutamate transporter GLT1 in Fragile X	\$5,000	Q2.S.D	Tufts University
MeCP2 modulation of BDNF signaling: Shared mechanisms of Rett and autism	\$303,067	Q2.S.D	University of Alabama at Birmingham
Met signaling in neural development and circuitry formation	\$230,032	Q2.Other	University of Arizona
Autism Linked LRRTM4-Heparan Sulphate Proteoglycan Complex Functions in Synapse Development	\$0	Q2.S.G	University of British Columbia
Neural mechanisms of tactile sensation in rodent somatosensory cortex	\$246,278	Q2.Other	University of California, Berkeley
Inhibitory mechanisms for sensory map plasticity in cerebral cortex	\$316,453	Q2.Other	University of California, Berkeley
Convergence of immune and genetic signaling pathways in autism and schizophrenia	\$29,430	Q2.S.A	University of California, Davis
IL-1beta and IL1RAPL1: Gene-environment interactions regulating synapse density and function in ASD	\$28,600	Q2.S.A	University of California, Davis
Project 3: Immune environment interaction and neurodevelopment	\$109,725	Q2.S.A	University of California, Davis
Mechanism of UBE3A imprint in neurodevelopment	\$7,869	Q2.S.D	University of California, Davis
Alteration of Dendrite and Spine Number and Morphology in Human Prefrontal Cortex of Autism	\$25,000	Q2.S.D	University of California, Davis
Language development in fragile X syndrome	\$509,862	Q2.S.D	University of California, Davis
Genotype-phenotype relationships in fragile X families	\$565,457	Q2.S.D	University of California, Davis
The role of MeCP2 in Rett syndrome	\$344,213	Q2.S.D	University of California, Davis
Amygdala connectivity in autism spectrum disorder	\$52,580	Q2.L.A	University of California, Davis
Synchronous activity in networks of electrically coupled cortical interneurons	\$0	Q2.Other	University of California, Davis
The neural substrates of higher-level learning in autism	\$221,760	Q2.Other	University of California, Davis
Typical and pathological cellular development of the human amygdala	\$369,600	Q2.Other	University of California, Davis
Experience and cognitive development in infancy	\$0	Q2.Other	University of California, Davis
Project 4: Calcium signaling defects in autism (Pessah/Lein)	\$109,730	Q2.Other	University of California, Davis
Cellular density and morphology in the autistic temporal human cerebral cortex	\$352,346	Q2.Other	University of California, Davis
a-Actinin Regulates Postsynaptic AMPAR Targeting by Anchoring PSD-95	\$0	Q2.Other	University of California, Davis

Project Title	Funding	Strategic Plan Objective	Institution
a-Actinin Regulates Postsynaptic AMPAR Targeting by Anchoring PSD-95	\$0	Q2.Other	University of California, Davis Medical Center University of California, Davis
BDNF and the restoration of synaptic plasticity in fragile X and autism	\$449,134	Q2.S.D	University of California, Irvine
Cortactin and spine dysfunction in fragile X	\$32,875	Q2.S.D	University of California, Irvine
Dual modulators of GABA-A and Alpha7 nicotinic receptors for treating autism	\$0	Q2.Other	University of California, Irvine
Integrative functions of the planum temporale	\$432,343	Q2.Other	University of California, Irvine
Investigation of sex differences associated with autism candidate gene, Cyfip1	\$32,413	Q2.S.B	University of California, Los Angeles
The role of Fox-1 in neurodevelopment and autistic spectrum disorder	\$145,757	Q2.S.D	University of California, Los Angeles
ACE Center: Neuroimaging signatures of autism: Linking brain function to genes and behavior	\$178,857	Q2.S.G	University of California, Los Angeles
ACE Center: Genetic and genomic analyses to connect genes to brain to cognition in ASD	\$241,951	Q2.S.G	University of California, Los Angeles
Electrophysiologic biomarkers of language function in autism spectrum disorders	\$28,600	Q2.L.B	University of California, Los Angeles
Modeling multiple heterozygous genetic lesions in autism using Drosophila melanogaster	\$201,838	Q2.Other	University of California, Los Angeles
A functional genomic analysis of the cerebral cortex	\$486,802	Q2.Other	University of California, Los Angeles
Abnormal connectivity in autism	\$15,000	Q2.Other	University of California, Los Angeles
Genetic models of autism in human neural progenitor cells: a platform for therapeutic discovery	\$54,400	Q2.Other	University of California, Los Angeles
Optogenetic treatment of social behavior in autism	\$385,000	Q2.Other	University of California, Los Angeles
A Role for Cytoplasmic Rbfox1/A2BP1 in Autism	\$0	Q2.Other	University of California, Los Angeles
Cytoplasmic functions of Rbfox1, a candidate autism gene	\$231,000	Q2.Other	University of California, Los Angeles
Relating copy number variants to head and brain size in neuropsychiatric disorders	\$399,146	Q2.S.G	University of California, San Diego
Atypical architecture of prefrontal cortex in young children with autism	\$149,715	Q2.Other	University of California, San Diego
Neural basis of cross-modal influences on perception	\$163,755	Q2.Other	University of California, San Diego
Kinetics of drug macromolecule complex formation	\$687,969	Q2.Other	University of California, San Diego
Influence of attention and arousal on sensory abnormalities in ASD	\$186,000	Q2.Other	University of California, San Diego
Development of the functional neural systems for face expertise	\$461,095	Q2.Other	University of California, San Diego
Stimulus preceding negativity and social stimuli in autism spectrum disorder	\$28,580	Q2.Other	University of California, San Diego

Project Title	Funding	Strategic Plan Objective	Institution
Using fruit flies to map the network of autism-associated genes	\$124,996	Q2.Other	University of California, San Diego
Linking circuit dynamics and behavior in a rat model of autism	\$0	Q2.S.D	University of California, San Francisco
Simons Variation in Individuals Project (VIP) Functional Imaging Site	\$1,142,798	Q2.S.G	University of California, San Francisco
Simons Variation in Individuals Project (VIP) Core Neuroimaging Support Site	\$434,182	Q2.S.G	University of California, San Francisco
A gene-driven systems approach to identifying autism pathology	\$249,874	Q2.S.G	University of California, San Francisco
Role of myelinating cells in autism spectrum disorders	\$60,000	Q2.S.G	University of California, San Francisco
Characterizing the regulatory pathways and regulation of AUTS2	\$0	Q2.Other	University of California, San Francisco
Pathologic and genetic characterization of novel brain cortical patches in young autistic brains	\$53,000	Q2.Other	University of California, San Francisco
A novel transplantation assay to study human PTEN ASD alleles in GABAergic interneurons	\$60,000	Q2.Other	University of California, San Francisco
Role of negative regulators of FGF signaling in frontal cortex development and autism	\$15,000	Q2.Other	University of California, San Francisco
Deciphering the function and regulation of AUTS2	\$0	Q2.Other	University of California, San Francisco
Regulation of Interneuron Development in the Cortex and Basal Ganglia by Coup-TF2	\$0	Q2.Other	University of California, San Francisco
Refining the Tourette Syndrome phenotype across diagnoses to aid gene discovery	\$417,271	Q2.Other	University of California, San Francisco
Using fMRI to understand the Neural Mechanisms of Pivotal Response Treatment	\$29,500	Q2.L.B	University of California, Santa Barbara
Development of a connectomic functional brain imaging endophenotype of autism	\$13,634	Q2.Other	University of Cambridge
Action anticipation in infants	\$105,936	Q2.Other	University of Chicago
Cerebellar plasticity and learning in a mouse model of autism	\$62,500	Q2.Other	University of Chicago
Evaluating the time-dependent unfolding of social interactions in autism	\$196,987	Q2.Other	University of Cincinnati
Molecular mechanisms linking early life seizures, autism and intellectual disability	\$313,576	Q2.S.E	University of Colorado Denver
Salivary melatonin as a biomarker for response to sleep interventions in children with autism	\$0	Q2.S.E	University of Colorado Denver
Neural synchronydysfunction of gamma oscillations in autism	\$254,470	Q2.Other	University of Colorado Denver
Multimodal neuroimaging of motor dysfunction in autism spectrum disorders	\$58,000	Q2.Other	University of Colorado Denver

Project Title	Funding	Strategic Plan Objective	Institution
Physiological studies in a human stem cell model of 15q duplication syndrome	\$60,000	Q2.S.D	University of Connecticut
Social interaction and reward in autism: Possible role for ventral tegmental area	\$124,936	Q2.Other	University of Geneva
Beta-catenin signaling in autism spectrum disorders	\$60,100	Q2.S.G	University of Illinois at Chicago
Synaptic phenotype, development, and plasticity in the fragile X mouse	\$379,329	Q2.S.D	University of Illinois at Urbana Champaign
Molecular dissection of calmodulin domain functions	\$310,222	Q2.Other	University of Iowa
Wnt modulation as a treatment for autism spectrum disorders	\$184,568	Q2.Other	University of Iowa
SHB: Type II (INT): Synthesizing self-model and mirror feedback imageries with applications to behavior modeling for children with autism	\$0	Q2.Other	University of Kentucky Research Foundation
16p11.2 rearrangements: Genetic paradigms for neurodevelopmental disorders	\$100,000	Q2.S.D	University of Lausanne
Children with 7q11.23 duplication syndrome: shared characteristics with autism	\$250,000	Q2.S.G	University of Louisville
BRIGE: Emotion mapping of children through human-robot interaction and affective computing	\$0	Q2.Other	University of Louisville Research Foundation Inc
Prostaglandins and cerebellum development	\$356,400	Q2.S.A	University of Maryland, Baltimore
Sensitive periods in cerebellar development	\$32,941	Q2.S.A	University of Maryland, Baltimore
Foxp2 regulation of sex specific transcriptional pathways and brain development	\$88,128	Q2.S.B	University of Maryland, Baltimore
A neural model of fronto-parietal mirror neuron system dynamics	\$178,100	Q2.Other	University of Maryland, College Park
How autism affects speech understanding in multitaler environments	\$0	Q2.Other	University of Maryland, College Park
BRAIN MECHANISMS OF AFFECTIVE LANGUAGE COMPREHENSION IN AUTISM SPECTRUM DISORDERS	\$506,507	Q2.Other	University of Maryland, College Park
The microRNA pathway in translational regulation of neuronal development	\$340,304	Q2.S.D	University of Massachusetts Medical School
Autism spectrum disorders –inflammatory subtype: Molecular characterization	\$0	Q2.S.A	University of Medicine & Dentistry of New Jersey
Caspr2 as an autism candidate gene: A proteomic approach to function & structure	\$305,280	Q2.Other	University of Medicine & Dentistry of New Jersey - Robert Wood Johnson Medical School
Cerebellar modulation of frontal cortical function	\$286,989	Q2.Other	University of Memphis
Investigating the Role of RBFOX1 in Autism Etiology	\$0	Q2.Other	University of Miami
Novel candidate mechanisms of fragile X syndrome	\$249,000	Q2.S.D	University of Michigan
Molecular mechanisms of the synaptic organizer alpha-neurexin	\$373,200	Q2.Other	University of Michigan

Project Title	Funding	Strategic Plan Objective	Institution
Matrix metalloproteinases expression in autism spectrum disorders	\$15,000	Q2.Other	University of Naples
Mechanisms of synaptic alterations in a neuroinflammation model of autism	\$0	Q2.S.A	University of Nebraska Medical Center
A Novel Glial Specific Isoform of Cdkl5: Implications for the Pathology of Autism in Rett Syndrome	\$0	Q2.S.D	University of Nebraska Medical Center
Mechanisms of motor skill learning in the fragile X mouse model	\$292,423	Q2.S.D	University of Nebraska Medical Center
Using near-infrared spectroscopy to measure the neural correlates of social and emotional development in infants at risk for autism spectrum disorder	\$14,950	Q2.Other	University of New South Wales
Modeling Pitt-Hopkins Syndrome, an Autism Spectrum Disorder, in Transgenic Mice Harboring a Pathogenic Dominant Negative Mutation in TCF4	\$0	Q2.S.D	University of North Carolina, Chapel Hill
A longitudinal MRI study of brain development in fragile X syndrome	\$549,582	Q2.S.D	University of North Carolina at Chapel Hill
Functional and anatomical recovery of synaptic deficits in a mouse model of Angelman Syndrome	\$58,000	Q2.S.D	University of North Carolina at Chapel Hill
Bi-directional regulation of Ube3a stability by cyclic AMP-dependent kinase	\$60,000	Q2.S.D	University of North Carolina at Chapel Hill
PRECURSORS TO THE DEVELOPMENT OF ANXIETY DISORDERS IN YOUNG CHILDREN WITH AUTISM SPECTRUM DISORDER	\$515,246	Q2.S.E	University of North Carolina at Chapel Hill
Genome-wide identification of variants affecting early human brain development	\$590,292	Q2.S.G	University of North Carolina at Chapel Hill
ACE Network: A longitudinal MRI study of infants at risk for autism	\$2,391,469	Q2.L.A	University of North Carolina at Chapel Hill
Statistical analysis of biomedical imaging data in curved space	\$313,376	Q2.Other	University of North Carolina at Chapel Hill
Regulation of spine morphogenesis by NrCAM	\$213,120	Q2.Other	University of North Carolina at Chapel Hill
Effect of paternal age on mutational burden and behavior in mice	\$177,600	Q2.Other	University of North Carolina at Chapel Hill
Behavioral and neural correlates of reward motivation in children with autism spectrum disorders	\$0	Q2.Other	University of North Carolina at Chapel Hill
Neural circuits that regulate social motivation in autism	\$150,542	Q2.Other	University of North Carolina at Chapel Hill
Correcting excitatory-inhibitory imbalance in autism	\$112,500	Q2.Other	University of North Carolina at Chapel Hill
RNA expression at human fragile X synapses	\$59,217	Q2.S.D	University of North Carolina at Chapel Hill and North Carolina State University
Anti-Neuronal Autoantibodies in PANDAS and Autism Spectrum Disorders	\$100,000	Q2.S.A	University of Oklahoma Health Sciences Center
Neuropathology of the social-cognitive network in Autism: a comparison with other structural theories	\$143,728	Q2.Other	University of Oxford

Project Title	Funding	Strategic Plan Objective	Institution
Subependymal zone function in autism spectrum disorders	\$0	Q2.Other	University of Oxford
Contribution of cerebellar CNTNAP2 to autism in a mouse model	\$60,000	Q2.Other	University of Oxford
Autoimmunity against novel antigens in neuropsychiatric dysfunction	\$307,200	Q2.S.A	University of Pennsylvania
GABA and Gamma-band Activity: Biomarker for ASD?	\$25,000	Q2.S.D	University of Pennsylvania
The role of genetics in communication deficits in autism spectrum disorders	\$0	Q2.S.D	University of Pennsylvania
Genetic contribution to language-related preclinical biomarkers of autism	\$63,513	Q2.S.D	University of Pennsylvania
Early life seizures disrupt critical period plasticity	\$429,559	Q2.S.E	University of Pennsylvania
Assessing sleep regulation, sleep-dependent memory consolidation, and sleep-dependent synaptic plasticity in mouse genetic models of schizophrenia and autism spectrum disorders	\$32,469	Q2.S.E	University of Pennsylvania
Statistical methodology and analysis of the Simons Simplex Collection and related data	\$80,389	Q2.S.G	University of Pennsylvania
Quantifiable markers of ASD via multivariate MEG-DTI combination	\$257,169	Q2.L.B	University of Pennsylvania
A study of autism	\$0	Q2.L.B	University of Pennsylvania
Novel computational methods for higher order diffusion MRI in autism	\$601,657	Q2.Other	University of Pennsylvania
Magnetoencephalographic studies of lexical processing and abstraction in autism	\$291,317	Q2.Other	University of Pennsylvania
Transcriptional responsiveness in lymphoblastoid cell lines	\$0	Q2.Other	University of Pennsylvania
Cognitive control of emotion in autism	\$102,004	Q2.Other	University of Pittsburgh
Probing the temporal dynamics of aberrant neural communication and its relation to social processing deficits in autism spectrum disorders	\$29,987	Q2.Other	University of Pittsburgh
Development of ventral stream organization	\$137,338	Q2.Other	University of Pittsburgh
Engrailed targets and the control of synaptic circuits in Drosophila	\$361,875	Q2.Other	University of Puerto Rico Medical Sciences Campus
Taste, smell, and feeding behavior in autism: A quantitative traits study	\$541,983	Q2.Other	University of Rochester
Auditory and integrative functions of the prefrontal cortex	\$374,016	Q2.Other	University of Rochester
Emergence and stability of autism in fragile X syndrome	\$343,680	Q2.S.D	University of South Carolina
Altered placental tryptophan metabolism: A crucial molecular pathway for the fetal programming of neurodevelopmental disorders	\$0	Q2.S.A	University of Southern California

Project Title	Funding	Strategic Plan Objective	Institution
Factors influencing early associative learning as a precursor to social behavior heterogeneity	\$54,500	Q2.S.G	University of Southern California
HCC:Small:Computational studies of social nonverbal communication	\$0	Q2.Other	University of Southern California
Biology of non-coding RNAs associated with psychiatric disorders	\$430,144	Q2.Other	University of Southern California
Function and structure adaptations in forebrain development	\$520,098	Q2.Other	University of Southern California
Genetic studies of autism-related Drosophila neurexin and neuroligin	\$175,802	Q2.Other	University of Texas Health Science Center, San Antonio
Role of MEF2 and neural activity in cortical synaptic weakening and elimination	\$415,385	Q2.S.D	University of Texas Southwestern Medical Center
Investigation of protocadherin-10 in MEF2- and FMRP-mediated synapse elimination	\$55,670	Q2.S.D	University of Texas Southwestern Medical Center
Mechanisms of mGluR5 function and dysfunction in mouse autism models	\$393,841	Q2.S.D	University of Texas Southwestern Medical Center
Mechanisms of synapse elimination by autism-linked genes	\$240,115	Q2.S.D	University of Texas Southwestern Medical Center
Motor control and cerebellar maturation in autism	\$157,148	Q2.Other	University of Texas Southwestern Medical Center
Development of face processing expertise	\$339,118	Q2.Other	University of Toronto
20-year outcome of autism	\$0	Q2.L.A	University of Utah
Longitudinal characterization of functional connectivity in autism	\$182,352	Q2.L.A	University of Utah
The microstructural basis of abnormal connectivity in autism	\$276,865	Q2.Other	University of Utah
CAREER: Statistical models and classification of time-varying shape	\$0	Q2.Other	University of Utah
Fever, meningeal immunity and immune factors in autism	\$59,500	Q2.S.A	University of Virginia
Bone marrow transplantation and the role of microglia in autism	\$109,651	Q2.S.A	University of Virginia
Neural mechanisms underlying autism behaviors in SCN1A mutant mice	\$194,903	Q2.S.D	University of Washington
Simons Variation in Individuals Project (VIP) Site	\$508,680	Q2.S.G	University of Washington
Social processing, language, and executive functioning in twin pairs: Electrophysiological and behavioral endophenotypes	\$0	Q2.S.G	University of Washington
Electrophysiological response to executive control training in autism	\$89,670	Q2.Other	University of Washington
Networked cortical responses to movement associated with ASD	\$384,222	Q2.Other	University of Washington

Project Title	Funding	Strategic Plan Objective	Institution
Network Optimization of Functional Connectivity in Neuroimaging for Differential Diagnosis of Brain Diseases	\$345,000	Q2.Other	University of Washington
Speech disorders in individuals with 16p11.2 deletion or duplication	\$40,000	Q2.S.G	University of Wisconsin
Grammatical development in boys with fragile X syndrome and autism	\$141,075	Q2.S.D	University of Wisconsin - Madison
Translational regulation of adult neural stem cells	\$359,977	Q2.S.D	University of Wisconsin - Madison
Biological determinants of brain variation in autism	\$652,672	Q2.S.G	University of Wisconsin - Madison
Executive function in children with typical and atypical language abilities	\$493,697	Q2.Other	University of Wisconsin - Madison
Macrocephalic autism: Exploring and exploiting the role of PTEN	\$0	Q2.Other	University of Wisconsin - Madison
Statistical word learning in children with language disorders	\$29,355	Q2.Other	University of Wisconsin - Madison
Fragile X syndrome target analysis and its contribution to autism	\$259,025	Q2.S.D	Vanderbilt University
Characterization of the sleep phenotype in adolescents and adults with autism spectrum disorder	\$150,000	Q2.S.E	Vanderbilt University
mTOR modulation of myelination	\$178,659	Q2.S.D	Vanderbilt University Medical Center
Genetic and developmental analyses of fragile X mental retardation protein	\$378,771	Q2.S.D	Vanderbilt University Medical Center
Predicting phenotypic trajectories in Prader-Willi syndrome	\$294,904	Q2.S.D	Vanderbilt University Medical Center
Psychobiological investigation of the socioemotional functioning in autism	\$333,590	Q2.Other	Vanderbilt University Medical Center
Neurobehavioral investigation of tactile features in autism spectrum disorders	\$161,107	Q2.Other	Vanderbilt University Medical Center
VIP Family Meetings	\$121,016	Q2.S.G	VIP Family Meetings
The role of brainstem NTS inflammation and oxidative stress in Autism	\$43,000	Q2.S.A	Wadsworth Center
Mapping functional connectivity networks in autism spectrum disorder with diffuse optical tomography	\$56,900	Q2.Other	Washington University in St. Louis
Role of neuronal migration genes in synaptogenesis and plasticity	\$53,942	Q2.Other	Weill Cornell Medical College
High metabolic demand of fast-spiking cortical interneurons underlying the etiology of autism	\$56,000	Q2.Other	Weill Cornell Medical College
Pathogenic roles of paternal-age-associated mutations in autism	\$62,500	Q2.Other	Weill Cornell Medical College
Comprehensive phenotypic characterization of the 17q12 deletion syndrome	\$125,000	Q2.S.G	Weis Center for Research - Geisinger Clinic

Project Title	Funding	Strategic Plan Objective	Institution
Simons Variation in Individuals Project (VIP) Recruitment Coordination Site	\$216,139	Q2.S.G	Weis Center for Research - Geisinger Clinic
Genetic model to study the ASD-associated gene A2BP1 and its target PAC1	\$125,000	Q2.Other	Weizmann Institute of Science
Local connectivity in altered excitation/inhibition balance states	\$125,000	Q2.Other	Weizmann Institute of Science
Studying Rett and Fragile X syndrome in human ES cells using TALEN technology	\$30,000	Q2.S.D	Whitehead Institute for Biomedical Research
Genetically defined stem cell models of Rett and fragile X syndrome	\$350,000	Q2.S.D	Whitehead Institute for Biomedical Research
Allelic choice in Rett syndrome	\$374,862	Q2.S.D	Winifred Masterson Burke Medical Research Institute
Attention & word learning in children with ASD- Translating experimental findings into intervention	\$53,500	Q2.Other	Women & Infants Hospital
ACE Network: Multimodal developmental neurogenetics of females with ASD	\$2,670,192	Q2.S.B	Yale University
Sex differences in the neural mechanisms of treatment response	\$5,000	Q2.S.B	Yale University
Role of GABA interneurons in a genetic model of autism	\$62,500	Q2.S.D	Yale University
Pleiotropic roles of dyslexia genes in neurodevelopmental language impairments	\$36,724	Q2.S.D	Yale University
Investigating the etiology of childhood disintegrative disorder	\$74,970	Q2.S.F	Yale University
Identification of candidate genes at the synapse in autism spectrum disorders	\$168,245	Q2.S.G	Yale University
Genetic investigations of motor stereotypies	\$124,538	Q2.S.G	Yale University
Developmental neurogenetics in adolescents with autism	\$249,603	Q2.S.G	Yale University
Near-infrared spectroscopy studies of early neural signatures of autism	\$149,977	Q2.L.B	Yale University
Neural markers of shared gaze during simulated social interactions in ASD	\$416,250	Q2.Other	Yale University
Morphogenesis and function of the cerebral cortex	\$393,228	Q2.Other	Yale University
Functional analysis of EPHB2 mutations in autism - Project 1	\$89,633	Q2.Other	Yale University
Role of major vault protein in autism	\$0	Q2.Other	Yale University
Brain electrophysiology of interactive social stimuli	\$54,459	Q2.Other	Yale University
Functional analysis of EFR3A mutations associated with autism	\$62,500	Q2.Other	Yale University
The neural basis of weak central coherence in autism spectrum disorders	\$26,080	Q2.Other	Yale University

Project Title	Funding	Strategic Plan Objective	Institution
Social brain networks for the detection of agents and intentions	\$399,300	Q2.Other	Yale University
Integrative Regulatory Network Analysis of iPSCs Derived Neuronal Progenitors from Macrocephalic ASD Individuals in a Family-based Design	\$0	Q2.Other	Yale University

